

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P333343-930

Luminaire Tested: **S125DIW-S375D470U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333343-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S375D470U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.5 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: General Diffuse

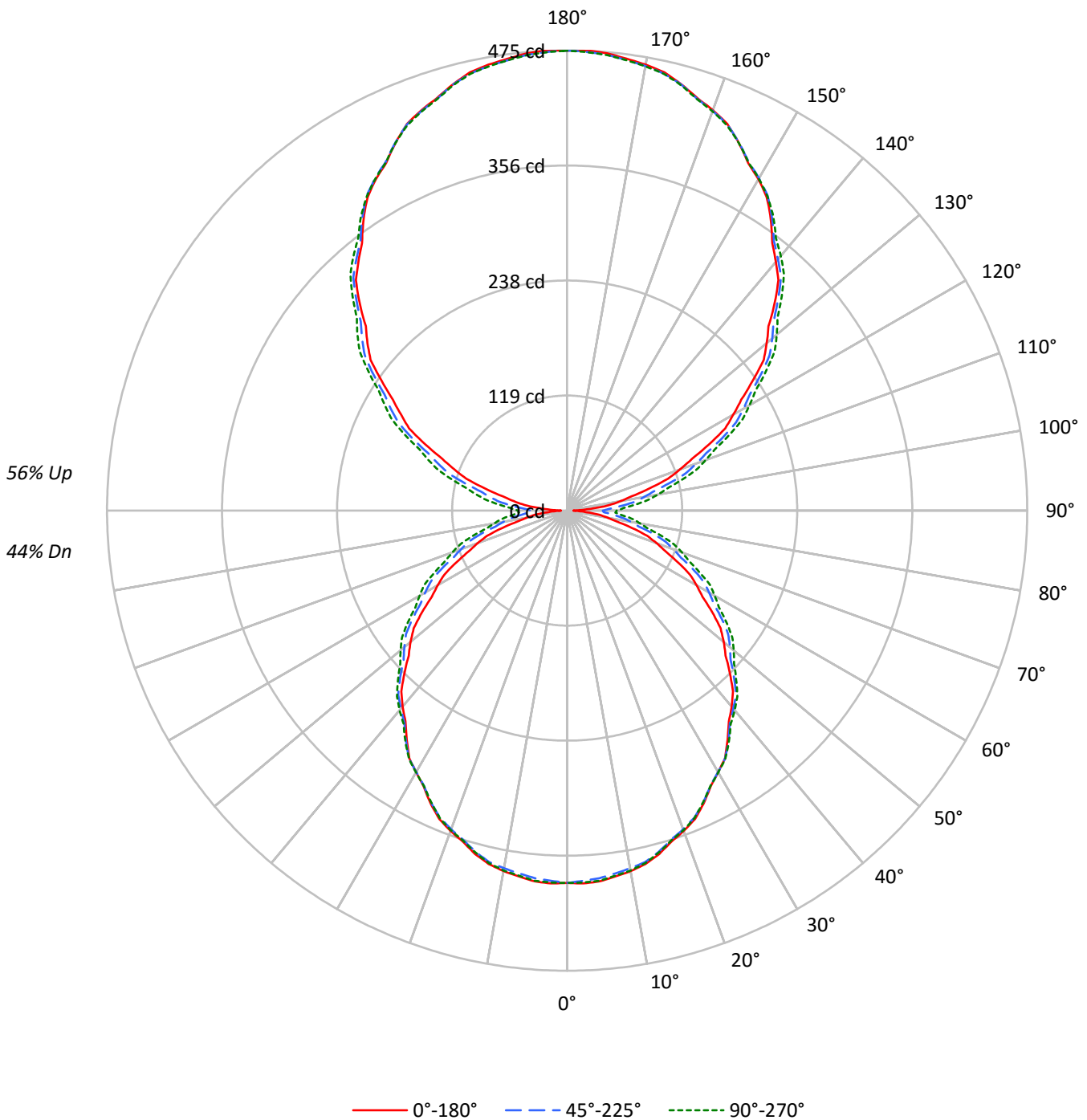
Input Watts (W): 23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	96	91	87	83	88	84	80	77	69	67	64	56	54	53	44	43	42	36
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	37	34	31	29	25
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25	21
5	66	55	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	24	21	19	16
7	56	44	36	30	51	41	33	28	34	28	24	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	20	17	15	13
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	19	16	14	11
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2482	2482	2482
5°	2487	2436	2444
10°	2469	2393	2389
15°	2440	2341	2319
20°	2401	2276	2249
25°	2354	2207	2164
30°	2296	2132	2086
35°	2243	2062	2014
40°	2189	1989	1942
45°	2127	1926	1878
50°	2069	1858	1821
55°	1998	1793	1756
60°	1921	1720	1687
65°	1842	1644	1612
70°	1750	1538	1534
75°	1605	1438	1437
80°	1417	1316	1333
85°	1239	1232	1299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.4
10°-20°	103.2	4.1
20°-30°	153.4	6.1
30°-40°	181.7	7.2
40°-50°	187.9	7.5
50°-60°	173.1	6.9
60°-70°	139.9	5.6
70°-80°	93.7	3.7
80°-90°	49.6	2.0
90°-100°	59.1	2.3
100°-110°	114.0	4.5
110°-120°	172.6	6.9
120°-130°	217.0	8.6
130°-140°	237.9	9.5
140°-150°	230.6	9.2
150°-160°	193.1	7.7
160°-170°	128.4	5.1
170°-180°	44.9	1.8
0°-30°	292.9	11.6
0°-40°	474.7	18.9
0°-60°	835.7	33.2
0°-90°	1118.9	44.5
90°-120°	345.6	13.7
90°-150°	1031.1	41.0
90°-180°	1398.0	55.6
0°-180°	2516.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	384	381	384	384	36
15°	367	367	365	367	366	103
25°	334	334	332	334	332	153
35°	289	291	290	291	291	181
45°	238	242	244	246	247	183
55°	183	189	195	199	200	163
65°	126	134	144	149	151	125
75°	69	79	91	98	101	74
85°	21	33	46	54	58	22
90°	6	21	37	47	51	5
95°	29	40	56	66	70	29
105°	88	96	109	118	122	94
115°	162	166	176	182	184	160
125°	234	236	244	249	250	209
135°	303	305	308	313	313	233
145°	367	368	369	371	371	229
155°	419	419	419	421	419	193
165°	456	455	455	457	454	128
175°	474	472	472	474	472	45
180°	475	475	475	475	475	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.2	385.1	385.0	384.8	384.7	384.4	383.9	383.4	383.0	382.5	383.0
5°	384.3	384.2	384.0	383.8	383.7	383.3	382.7	382.1	381.6	380.9	381.6
7.5°	380.9	380.9	380.8	380.7	380.7	380.3	379.8	379.1	378.5	377.9	378.5
10°	377.9	377.9	377.9	377.9	377.9	377.6	376.9	376.3	375.6	374.9	375.5
12.5°	373.7	373.8	373.8	373.9	374.0	373.7	373.2	372.7	372.1	371.6	372.0
15°	367.0	367.0	367.1	367.3	367.4	367.0	366.5	365.9	365.3	364.8	365.3
17.5°	358.2	358.4	358.6	358.7	358.9	358.7	358.2	357.5	356.9	356.4	356.8
20°	352.0	352.1	352.3	352.5	352.6	352.4	351.8	351.2	350.7	350.0	350.3
22.5°	344.7	345.0	345.3	345.6	345.9	345.7	345.0	344.4	343.7	343.1	343.4
25°	333.5	333.7	333.9	334.2	334.4	334.4	333.9	333.4	332.8	332.3	332.6
27.5°	321.0	321.3	321.7	322.0	322.5	322.4	321.8	321.2	320.7	320.1	320.2
30°	311.6	312.1	312.6	313.2	313.6	313.6	313.2	312.6	312.1	311.6	311.8
32.5°	303.2	303.6	304.0	304.5	304.9	304.9	304.6	304.2	303.9	303.5	303.6
35°	288.6	289.2	289.8	290.4	291.0	291.1	290.9	290.7	290.4	290.2	290.4
37.5°	274.1	274.6	275.2	275.7	276.2	276.5	276.4	276.3	276.2	276.1	276.5
40°	264.2	264.8	265.5	266.1	266.8	267.1	267.0	266.9	266.8	266.8	267.1
42.5°	253.3	254.1	255.0	255.9	256.7	257.3	257.5	257.6	257.9	258.0	258.4
45°	237.7	238.7	239.6	240.5	241.4	242.1	242.6	243.0	243.4	243.8	244.3
47.5°	221.8	222.7	223.6	224.5	225.3	226.1	226.8	227.5	228.2	228.9	229.8
50°	211.0	211.9	212.9	213.8	214.7	215.6	216.5	217.4	218.3	219.3	220.2
52.5°	199.6	200.6	201.8	202.9	204.1	205.1	206.3	207.4	208.6	209.6	210.7
55°	182.7	184.1	185.4	186.8	188.1	189.5	190.8	192.1	193.5	194.8	195.8
57.5°	165.6	167.1	168.8	170.4	172.0	173.6	175.1	176.7	178.2	179.7	180.8
60°	154.1	155.8	157.4	159.1	160.8	162.5	164.1	165.8	167.5	169.2	170.4
62.5°	142.9	144.6	146.3	148.0	149.7	151.4	153.2	155.0	156.9	158.7	160.0
65°	125.9	127.8	129.7	131.6	133.5	135.5	137.5	139.6	141.5	143.6	144.8
67.5°	109.7	111.6	113.4	115.3	117.2	119.1	121.2	123.2	125.2	127.3	128.8
70°	98.0	99.9	101.8	103.7	105.7	107.7	109.9	112.1	114.2	116.4	118.1
72.5°	86.5	88.5	90.5	92.5	94.5	96.7	99.1	101.4	103.8	106.2	107.9
75°	69.3	71.5	73.7	75.8	78.0	80.5	83.2	85.9	88.5	91.2	92.9
77.5°	52.8	55.4	57.9	60.3	62.9	65.4	68.0	70.6	73.1	75.7	77.6
80°	42.6	45.1	47.6	50.1	52.6	55.3	58.1	61.0	63.8	66.7	68.6
82.5°	33.3	35.9	38.6	41.2	43.8	46.6	49.5	52.4	55.4	58.2	60.0
85°	20.7	23.5	26.3	29.0	31.8	34.7	37.6	40.5	43.5	46.3	48.2
87.5°	11.8	14.7	17.4	20.3	23.1	25.9	28.9	31.9	34.8	37.8	39.8
90°	6.4	9.7	13.0	16.4	19.7	23.2	26.6	30.0	33.4	36.8	39.1
92.5°	14.3	17.3	20.2	23.2	26.1	29.4	33.0	36.6	40.3	43.9	46.3
95°	28.9	31.2	33.6	36.0	38.3	41.3	44.9	48.6	52.3	55.9	58.4
97.5°	44.4	46.4	48.4	50.5	52.4	55.4	59.3	63.2	67.0	70.9	73.2
100°	55.8	57.6	59.4	61.1	62.9	65.6	69.4	73.1	76.9	80.6	83.2
102.5°	68.3	70.3	72.2	74.1	76.1	78.7	81.8	85.0	88.1	91.2	93.8
105°	87.6	89.4	91.2	92.9	94.7	97.0	100.0	103.1	106.1	109.0	111.2
107.5°	109.1	110.6	112.2	113.7	115.3	117.4	120.3	123.0	125.8	128.6	130.5
110°	123.8	125.2	126.7	128.1	129.5	131.5	134.1	136.7	139.3	141.9	143.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	139.3	140.2	141.2	142.3	143.2	145.1	147.7	150.3	152.9	155.5	157.1
115°	161.5	162.4	163.4	164.3	165.2	166.8	169.2	171.5	173.8	176.2	177.6
117.5°	183.9	184.4	185.0	185.5	186.1	187.4	189.6	191.8	194.0	196.2	197.7
120°	198.1	198.8	199.4	200.1	200.7	202.1	204.1	206.1	208.1	210.1	211.6
122.5°	213.2	213.4	213.7	213.9	214.3	215.4	217.4	219.6	221.6	223.7	224.9
125°	233.9	234.3	234.7	235.1	235.5	236.7	238.4	240.2	241.9	243.7	244.8
127.5°	255.8	255.9	256.1	256.3	256.5	257.3	258.9	260.3	261.8	263.3	264.4
130°	269.0	269.4	269.7	270.0	270.4	271.2	272.5	273.9	275.2	276.5	277.6
132.5°	282.0	282.7	283.3	284.0	284.7	285.4	286.3	287.1	288.0	288.9	290.0
135°	303.0	303.5	303.9	304.3	304.7	305.2	305.9	306.6	307.2	307.9	309.0
137.5°	322.8	323.2	323.6	324.0	324.4	324.8	325.3	325.8	326.2	326.7	327.8
140°	335.2	335.6	336.0	336.4	336.8	337.2	337.5	337.9	338.2	338.5	339.6
142.5°	347.9	348.1	348.5	348.7	349.0	349.3	349.6	349.9	350.3	350.6	351.5
145°	366.6	366.8	367.0	367.3	367.5	367.8	368.0	368.3	368.5	368.8	369.2
147.5°	383.5	383.7	383.8	384.0	384.3	384.4	384.6	384.8	385.0	385.2	385.6
150°	395.0	394.9	394.8	394.8	394.7	394.8	395.2	395.5	395.8	396.2	396.2
152.5°	404.5	404.6	404.7	404.8	405.0	405.0	405.2	405.4	405.4	405.6	405.8
155°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.2	419.3	419.4	419.7
157.5°	432.0	431.9	431.7	431.5	431.3	431.3	431.4	431.5	431.5	431.6	431.9
160°	439.8	439.5	439.2	439.0	438.7	438.6	438.7	438.8	438.9	439.0	439.4
162.5°	446.5	446.4	446.2	446.0	445.8	445.7	445.7	445.7	445.8	445.8	446.2
165°	455.6	455.4	455.3	455.1	454.9	454.9	455.0	455.1	455.2	455.3	455.6
167.5°	463.3	463.0	462.7	462.4	462.0	461.9	461.9	461.9	461.9	461.9	462.4
170°	467.4	467.1	466.8	466.4	466.1	465.9	465.9	465.9	465.9	465.9	466.4
172.5°	470.4	470.1	469.8	469.4	469.1	469.0	469.0	469.0	469.0	469.0	469.4
175°	473.8	473.4	473.0	472.7	472.4	472.2	472.2	472.2	472.2	472.2	472.7
177.5°	475.4	475.2	474.9	474.7	474.3	474.2	474.2	474.1	474.0	473.9	474.3
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	383.4	383.9	384.4	384.6	384.5	384.5	384.4	384.3
5°	382.3	382.9	383.6	383.9	383.8	383.8	383.7	383.6
7.5°	379.1	379.7	380.3	380.5	380.4	380.3	380.3	380.2
10°	376.1	376.7	377.2	377.5	377.4	377.3	377.2	377.2
12.5°	372.5	372.9	373.4	373.5	373.3	373.1	372.8	372.7
15°	365.7	366.2	366.7	366.8	366.5	366.2	365.8	365.5
17.5°	357.2	357.5	357.9	358.0	357.8	357.6	357.4	357.2
20°	350.6	350.8	351.1	351.1	351.1	351.1	351.1	351.1
22.5°	343.7	344.1	344.4	344.5	344.2	344.1	343.8	343.6
25°	333.0	333.4	333.7	333.6	333.2	332.8	332.4	332.0
27.5°	320.5	320.7	321.0	321.1	320.9	320.7	320.6	320.4
30°	311.9	312.1	312.3	312.3	312.3	312.2	312.1	312.0
32.5°	303.8	303.9	304.1	304.2	304.1	304.0	303.9	303.9
35°	290.7	290.9	291.1	291.2	291.2	291.2	291.2	291.2
37.5°	276.8	277.1	277.4	277.6	277.6	277.5	277.5	277.4
40°	267.4	267.7	268.2	268.4	268.6	268.7	268.9	269.0
42.5°	258.9	259.3	259.7	259.8	259.9	259.9	259.9	260.0
45°	245.0	245.6	246.1	246.5	246.5	246.6	246.7	246.8
47.5°	230.6	231.5	232.4	232.8	233.1	233.3	233.4	233.6
50°	221.1	222.1	223.0	223.6	223.8	224.0	224.3	224.5
52.5°	211.7	212.6	213.6	214.2	214.3	214.6	214.7	214.9
55°	196.7	197.5	198.5	199.1	199.4	199.7	200.2	200.5
57.5°	181.8	182.9	183.9	184.6	184.8	185.1	185.4	185.6
60°	171.7	172.9	174.2	175.0	175.2	175.5	175.7	175.9
62.5°	161.4	162.8	164.2	165.0	165.3	165.7	166.0	166.3
65°	146.1	147.3	148.5	149.4	149.7	150.0	150.4	150.7
67.5°	130.4	131.8	133.4	134.4	134.8	135.3	135.7	136.1
70°	119.6	121.2	122.8	123.8	124.3	124.8	125.3	125.9
72.5°	109.7	111.4	113.1	114.1	114.5	114.9	115.2	115.6
75°	94.6	96.2	97.9	98.9	99.4	99.8	100.2	100.6
77.5°	79.4	81.3	83.1	84.2	84.5	84.9	85.2	85.5
80°	70.4	72.2	74.0	75.2	75.5	75.8	76.1	76.5
82.5°	61.8	63.6	65.4	66.5	67.2	67.8	68.3	69.0
85°	50.1	51.9	53.7	55.0	55.6	56.3	57.0	57.6
87.5°	41.8	43.9	45.8	47.1	47.8	48.4	49.1	49.7
90°	41.5	43.8	46.1	47.8	48.6	49.4	50.2	51.0
92.5°	48.7	51.1	53.5	55.0	55.8	56.6	57.4	58.1
95°	60.8	63.2	65.6	67.2	68.0	68.7	69.5	70.2
97.5°	75.5	77.9	80.1	81.6	82.3	82.9	83.6	84.3
100°	85.7	88.1	90.7	92.2	92.9	93.6	94.2	94.9
102.5°	96.3	98.7	101.3	102.9	103.6	104.4	105.1	105.8
105°	113.4	115.5	117.7	119.2	120.0	120.9	121.7	122.5
107.5°	132.4	134.3	136.2	137.4	137.9	138.4	138.9	139.4
110°	145.5	147.4	149.2	150.4	150.9	151.4	151.9	152.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	158.7	160.4	162.0	163.1	163.5	164.0	164.4	164.8
115°	179.0	180.4	181.9	182.8	183.2	183.6	184.1	184.5
117.5°	199.3	200.7	202.2	203.1	203.3	203.6	203.8	204.1
120°	213.0	214.4	215.8	216.6	216.8	217.0	217.1	217.3
122.5°	226.2	227.6	228.9	229.6	229.8	230.1	230.3	230.6
125°	246.1	247.2	248.4	249.2	249.5	249.8	250.1	250.5
127.5°	265.5	266.7	267.8	268.6	268.9	269.2	269.5	269.9
130°	278.7	279.8	280.9	281.5	281.8	282.1	282.3	282.6
132.5°	291.1	292.2	293.3	293.9	294.0	294.2	294.2	294.4
135°	310.1	311.1	312.3	312.8	312.9	313.0	313.1	313.2
137.5°	328.9	330.0	331.0	331.6	331.5	331.4	331.3	331.3
140°	340.6	341.8	342.8	343.3	343.2	343.2	343.1	343.1
142.5°	352.4	353.3	354.2	354.6	354.5	354.4	354.3	354.2
145°	369.7	370.1	370.5	370.7	370.8	370.9	371.0	371.0
147.5°	385.9	386.2	386.5	386.5	386.0	385.6	385.2	384.8
150°	396.2	396.2	396.2	396.1	396.0	395.9	395.8	395.7
152.5°	406.0	406.2	406.3	406.3	406.0	405.8	405.5	405.2
155°	420.0	420.4	420.7	420.7	420.3	419.9	419.5	419.1
157.5°	432.3	432.6	432.9	432.8	432.3	431.7	431.2	430.6
160°	439.7	440.0	440.3	440.3	439.9	439.4	439.0	438.6
162.5°	446.6	446.9	447.4	447.4	446.9	446.4	445.9	445.4
165°	455.9	456.2	456.6	456.5	456.0	455.5	455.0	454.5
167.5°	462.8	463.3	463.8	463.8	463.3	462.8	462.3	461.8
170°	466.9	467.4	468.0	467.9	467.3	466.8	466.2	465.6
172.5°	469.9	470.4	470.9	470.9	470.3	469.9	469.4	468.9
175°	473.2	473.8	474.3	474.2	473.6	473.0	472.5	471.9
177.5°	474.7	475.2	475.6	475.5	475.1	474.6	474.1	473.7
180°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8

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